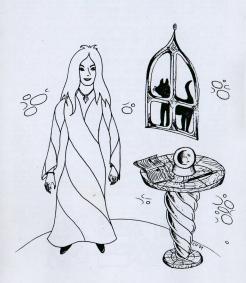
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The opinions expressed within this magazine by individual writers are not necessarily shared by the Editor. Adventure Coder does not recommend or condone any particular firm or product.

Issues of Adventure Coder come out during the middle of each month. The deadline for contributions is the last day of the previous month. Software and hardware is greatly appreciated for review purposes no matter what computer it is for. Adventure writing utilities are

especially welcome. Adventure Coder is produced on a Commodore 64 with a Star LC10C printer using a variety of programs.

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BETTER LATE THAN NEVER!

Okay, it's late! I agree - what's a magazine marked October doing out in November? Well, better late than never! There are two reasons for the delay: firstly, my Publisher moved house so I was unsure of her new address for a while, and secondly I held back until. as you can tell. I got hold of my new printer! I hope you agree the magazine olooks even better now! So those are my excuses for a late issue looks even better now! So those are my excuses for a late issue however. I've been using the extra time to improve the magazine as I'm still looking for wave to improve it'his the best issue yet - and I'm still looking for wave to improve it'his the best issue yet - and

This month sees several new features, starting with a fantastic competition for you all to enter. Hopefully I can include further competitions in each new issue, so look out for more mega prizes to win! Another new feature is a regular spot for your own FREE line Ads. Tell me which category you'd like your ad to go under (i.e FOR SALE, tell me which category you'd like your ad to go under (i.e FOR SALE, that the ads should be a maximum of 40 words long, but that a lot that the ads should be a maximum of 40 words long, but that a lot fortune!

Don't forget you can also advertise in a much larger proportion of the magazine at the extremely cheap rates as shown on the back page. I've received a couple of adverts recently, that have included very photocopied MVICE before a tight and the state of the state o

Next month sees hopefully the first in a series of interviews with the top names behind the games, plus my article on atmosphere in addentures, delayed from this same im arraid. Then there is another and a look at ways to expand the leatability of your adventure. In Gerald Kellett's "Utilitarian" column that starts this month. Rest assured issues won't be late, though, I've already panted some of it

Finally, I'd like to dedicate this issue to Alan Murphy, guitarist with Level 42, who died recently, I went to see this brilliant band live in January this year, and it seemed the potential for Alan's future as a talented musician within the band looked very bright...

Dear Chris.

Although vou sent Adventure Coder #1 some time ago, I've only now found time to sit down and write to you. The content of issue 1. found mixed. Those parts that struck me as good were 'PAW Prints', which contained one or two useful ideas, (even if 11 did lead off with the same exit that I wrote routine Adventure Contact back in June 'GAC to the 187!). Drawing Board', which again contained some good practical hints, and the GAC+ review; it was nice to see someone fairly informed criticising a utility for once. Makes a change from all the adulation STAC got, for example, with hardly a negative comment. Most of its reviews of course, came from people with little or no experience of actually using adventure-writing utilities, and as such most of the reviews seemed to me to lack depth. STAC's a good utility, but perfect. digressing. I was talking about your GAC material. Although you came over as knowing what you're talking about. I feel GAC little long in the tooth these days. As you say yourself. "the 8-bit adventure market shrinking yearly", and when was the last time you saw a GACed game reviewed anywhere? I think if you rely on too much GAC material, you'll be somewhat out of touch, STAC, of course, is another matter. having more potential than anything we've seen so far in the utility world, despite my comments above.

Other parts of the zine struck me as middling, such as the Machine Code section, the story and 'Whatever happened to..?'. I'm not sure who Paul Brunyee's Machine Code article was aimed at. Anyone who needs to be shown methods of printing strings to the screen etc. is unlikely to consider writing an adventure completely in assembly or would probably lack confidence to 'bolt on' routines to the established utilities. Conversely, anyone who feels up to tackling modifying a utility or writing something in assembly from scratch would probably only need a hand with more advanced routines. Perhaps. Paul would consider either taking a less ambitious view, starting with the basics of assembly, without the intention of creating complete adventure or whatever. or do the opposite and help out with some more involved areas of coding.

'The Burning Man' story was OK, perhaps the most interesting thing being the idea that hell is the continuation of method of death. That might make

the basis of a good game, if it were expanded.

'Whatever happened to .. ?' was quite interesting, but then nostalgia always is. Ahh. TKV. when computers were real computers. Disk drives pah. three-digit memory sizes -When ah were a lad, there only one kind of computer. that were Hovis (la da daa.

da dee . . .) The one or two bits pieces left besides the news and the bits of addresses, were, far as I'm concerned, not worth the death of the trees that formed their pages. included 'Rollin' Ball' crossword, the 'Food Chart' the excuse for a poem. I can see it now Adventure . Coder inspired by Woman's Weekly!

Bloody hell. But anyway. I think T've rambled on enough for now. Good luck with future issues: I hope you can build on the good points of the first. Something you're going to need of course, is a few more contributers. Normally. I'd write something for you, but all my efforts are going towards my own zine at the moment, (I'll resist the temptation to plug.) I hope Coder gets the support it

Alistair G. Thomas, East Lothian,

You say I'm going to need more contributers, then you opt out yourself! "Normally, I'd write something for you, but ... " I hope other readers don't feel content in wishing Adventure Coder well, but not having the will to write in with article, or there'll be no magazine! I appreciate you're setting up your own magazine (I hate the term "zine") so I guess you could be excused there, Alistair. Even so, if you were unwilling to send in an article. at least you sent in a letter. Let's have more letters still, please!



_

Dear Chris.

If you care to, you can put
my name and address in the
'Columnist list, as I am now the
Games Software Editor of CPC
USER. This is the magazine of
THE UNITED AMSTRAD USER GROUP.

I am more than willing to review adventure games in my column, providing they are also accompanied by a map and full solution.

All the best, and keep up the good work.

John Packham, Southampton.

P.S. If anyone writes requesting help with using ADLAN, then I'm more than happy to help in any way I can.

With any luck, John should also be starting soon to contribute articles on using Graduate Software's ADLAN utility for the Ametrad CPC. Why not send him a game to review too? I'll include the address at the back in my list of Umeful Addresses.

Dear Chris.

you won't like me after this but nevertheless I'm afraid I'm going to have to call it a day as far as writing for "AC" is considered. I realise that this could prove to be quite awkward for you but I don't really have a great deal of choice in the matter. I've just started doing my A-levels and I've really been amazed at the amount of extra work it requires. So much in fact that there just isn't as much time left for me to do everything I'd like and writing for "AC" just happens to be one of the casualties of this. Thanks for the opportunity in the first place but I'm afraid that's it now.

Matthew Conway, Lambourn.

You win some, you lose some! I was looking forward so much to further regular articles from Matthew on role-playing games and using STAC, spiced with his sense of humour eadly lacking from other articles in the magazine. The now looking for wall of the sense of humour sadly lacking are sense of humour sadly lacking from some sense of the sen



Dear Chris.

Dear Chris,
Well done, for the best
Adventure Coder so far. I hope
it can keep expanding for a few
issues, with more readers

letters, more articles and hopefully more reviews.

In response to Gerald Kellett's letter in Issue 3 I hope you will keep the content of the magazine as it is at present. PBM games are nothing to do with adventure games and RPGs are one of my pet hates. The glossy, newstand magazines cover these subjects already.

However, another Kellett's suggestions is. I think, an excellent one. That is the suggestion of an association independent software producers. If anybody is willing form such association/group would definitely join it. Benefits would be numerous, one of the best I could think of is that advertisements in circulation magazines could be bought, with joint financing and several games mentioned in one advert. If any software writer/producer out there

willing to start something on these lines please write to me.

Patrick Walsh, c/o Mental Image, 36 Verney Road, Langley, Slough, Berkshire, SL3 8NX.

"I was very impressed with your magazine, it was well written and the duplication was of a good standard, it was also a lot fatter than I expected! I wish you all the best with your magazine and hope it goes from strength to strength, as it deserves to." - Keith McLeman, Fraserburgh.

N

COMPUTER CHAOS? In a recent report, a claim was made that the new TV station "Channel 5" is set to broadcast at a frequency the same as that wand by widen recorders.

"Channel 3" is set to broadcast at a frequency the same as that used by video recorders and, computers! The result would therefore be chaotic to say the least - your VCRs would no longer function properly and all incomputers would be been supported by the same the property of the prope

Whether carnot the report is true is a matter for the future to reveal, however, if it were true it would undoubtedly mean misery for thousands of VCR and home computer users unable to enjoy their hobby. All hardware would subsequently have to be described by the control of t

there! Myself, I don't believe report - if it were true, then the channel would fail operate itself! - none of the computers used in making programmes would be usable. the VCRs used to store future programmes on video tape, the stable diet of modern visuals, would be out of order! So how could Channel 5 hope to run? We await further news... (it isn't April. so it can't be an April Fool ...)

LEVEL 9 QUIT!

It's true - the giants of adventuring are quitting first, adventures! At they announced that future games wouldn't be available on 8-bit computers anymore, but now it is clear that any future Level 9 games won't even be adventures! They'll be arcade games and RPG games, written using their new H.U.G.E. programming system, standing for wHolly Universal Games Engine - shouldn't that be W.U.G.E.? The technical specifications of the system are large, but useless if it can't write an adventure! Bring back the days of the humble Speccy text-only adventure game I say.



AMIGA STOS

The Amiga version of STOS, the pame-creator from Mandarin Software, is due out soon, to be called AMOS. By 'eck! The delay in releasing an Amiga version can only mean that Mandarin have taken time to improve upon the many bugs in STOS and hopefully produce an even better utility. But surely, you say, STOS is used for arcade games only, not adventures, so who's interested in AMDS? Well try telling that to Gerald Kellett, who's been using STOS recently to create adventure stuff! More than that I cannot say, but look out for the results!!



COLUMN CHANGES

No sooner had the Pilgrim
returned to write ANSTRAD
ACTION's adventure column than
he decided to leave! His
replacement is the unoriginally
named Balrog (yawn).

Mike Gerrard spreads his wings meanwhile, and begins a new adventure column for ZERO, a new multiformat magazine — but don't worry, readers of his column in YOUR SINCLAIR, he's still writing that as well. Both columns are well worth checking

But what about Tony Bridge (again)? Is he still writing for Popular Computing Weekly since it's recent change of look? Each week I look through the magazine only to note the absence of Tony's column - vet again. Did it appear one week and I missed it? Or has he been given the elbow again? If so, it's a real shame, as "our Tone" is one of the best of the adventure columnists. always keen spread the word about magazines such as this one and "Adventure Probe". Let's hope he's still there.

REWRITE STAC!

Incentive are now selling the complete documentation for the code of STAC - what's more, they're selling it free! This will enable STAC users to write own programming their routines and create your very own personalized version of STAC, tailored to your adventure writing needs. Yippee! Simply send a stamped self-addressed envelope to INCENTIVE SOFTWARE LTD. Zephyr One, Calleva Park, Aldermaston, Berkshire, RG7 40W. (Is this really true? I find it hard to believe!)



MAY THE FOUR

A new collaboration between renouned adventure four columnists has been announced. INTER-ACTION is the name and the four behind it are The Harlequin (ex-Zzap!), Rob Steel (ex-The Games Machine), Auntie Marg (for strategy games) and Nik Wild (ex-Newsfield). The idea is to produce six bi-monthly dossiers a year, 50 pages thick, packed with allsorts of adventurous goodies including reviews. programming help (gulp) and maps, etc. You can subscribe for a year for £15, which also buys you a newsletter and a weekly telephone helpline. Interested? Then scribble off now to: Cottage. INTER-ACTION. The Carbonell. Ludlow. Ashford Shropshire, SY8 4DB.

PAW PRINTS



I'm beginning this issue with a posthumous dedication to the 'father' of all barbarian adventurers, Robert Erwin Howard (1906 - 1936), who gave life to that golden hero. Conan the barbarian, and to the people who've kept him going these many years hence, L. Sprague De Camp, Lin Carter and Biorn Nyberg, here's to you all.

well. after that, how did last month oo for you? Mine went pretty awful, an per usual, and I've also been told off slightly by Larry Morsfield (sometime in August) for 'PAW Frint's being too straight-laced, too formal and not explaining my routines easily enough (not everyone has found the provided of the control of the

So do you remember Larry's column from 'Probe' volume 3, number 4? In which he explained the excellent use of flags to hold the number of objects carried/dropped, worn/removed, or inside of another object, and his new 'inventory' routine, using LET 53 64, for the continuous listing of objects on-screen?

listing of dojects on-acteany well here i'd like to offer some slightly different versions of those will routines, and some totally new and definitely different get all those who've never read it, like me, even though i's writing about it!) some of Mrs Linda Wright (of Marlin Games) routines from 'Adventure Contact' 17.

My many thanks go to both Linda and Larry for this month's 'PAW Print's!

So for Linda's 'Adventure Contact' routines, using the PAM's ability to recognise verbs and nouns above/below a certain value, because any nouns with a number less than 15 are movement words (ie, the names of any than 19 are to the less than 10 are movement words (ie, the names of any than 19 are the names of people and places, etc., if we use some nouns with a value less than 100, but greater than 49, as object names, and anything else that's described in a message, or location text we give a noun number more than 95, we can come up with some really useful and so here I've used flag.'A se a number AFTER that of the last, real,

So here I've used flag.'A' as a number AFTER that of the last, real objects number, present in a game, so..

GET _ 0 WHATO LT 51 A GT 34 49 LT 34 100 AUTOG NEWLINE DONE

Is the noun number (flag 34) given, the name of a real object? (Using WHATO LT 51 A) Then you're allowed to pick it up, I've newlined it just to make it look a bit 'cleaner'!

GET 1 WHATO LT 51 A GT 34 19 LT 34 50 MESSAGE F NEWTEXT DONE

But if the object-noun is the name of a person for example, then message 'F' = 'But _ doesn't wish to follow you unless invited!', which could always be used with something like 'SAY TO BALROG "FOLLOW ME"'.

GET 2 GT 34 99 MESSAGE G NEWTEXT DONE

And if the noun is an item relevant to a location description, for example a wardrobe in the corner of a room, and so cannot be moved, then message 'G' = 'Sorry, but it will not move, perhaps it is too heavy to lift?'

GET 3 SYSMESS 26 NEWLINE NEWTEXT DONE

With sys' 26 = 'Sorry, but there's nothing like that here!' Now a variation of some of these GET $_{\rm T}$ routines could also be used for some DROP $_{\rm T}$ actions, for example.

DROP 0 WHATO LT 51 A GT 34 49 LT 34 100 AUTOD NEWLINE DONE

This first one's just about the same as the GET _ 0 option above..

DROP _ 1 WHATO LT 51 A GT 34 19 LT 34 50 MESSAGE H NEWTEXT DONE DONE

With message 'H' = 'But you don't possess anything like a $\underline{\ }$ to be able to drop!'.

DROP 2 GT 34 99 SYSMESS 28 NEWLINE NEWTEXT DONE

Again, this is nearlly the same as GET _ 2, but with sys' = 'But you don't possess anything like that!'.

DROP 3 SYSMESS 28 NEWLINE NEWTEXT DONE

I'll freely admit, my DROP routines were entirely based on Linda's GET versions, but hey're a compliment to them I hope? Now for those variations on the get all/drop all, etc, routines. Now the first of these get all commands only works if 'none' of the conveyable objects in a game are in the players present location!

GET ALL 0 ISNOTAT A 255 ISNOTAT B 255 ISNOTAT C 255 MESSAGE D NEWTEXT DONE

And thus, if neither objects A, B or C are at the players current location (flag 255), then message 'D' = 'But there isn't anything here to be able to pick up!' There should be one ISNOTAT action for each conveyable object in a game, using examples A, B and C..

GET ALL 1 MESSAGE E PROCESS A ANYKEY DESC

The routine in response will only go onto the GET ALL 1 action, if there is at least 1 conveyable item in the players present location, and it then moves onto process A and redescribes the screen, which thus 'gets' any objects that are present, with message 'E' = 'You pick up anything you can seel', and for the 'business end' of these routines in process A, we need to keep a constant record of the amount of items being the contract of the con

* _ 0 ISAT A 255 PLACE A 254 PLUS 71 1

And from the example above, 1 such routine needs to be used for each individual object conveyable in a game, just changing value A into the number of the object concerned.

GET _ 0 AUTOG PLUS 71 1 DONE

Now for any objects being carried (ie, at location 254, with flag 71 being anything but zero) these next few routines are nearly the same as the GET ALLs above.

DROP ALL 0 ZERO 71 MESSAGE F NEWTEXT DONE

Here, DROP ALL 0 'only' works if the player is NOT carrying anything at all (and flag 71 is thus equal to zero), with message 'F' = 'But you're not carrying anything to be able to drop!'

DROP ALL 1 NOTZERO 71 MESSAGE G PROCESS B ANYKEY DESC

So if flag 71 is anything but zero (ie, the player's carrying at least 1 teem, then message 'G' = 'You put down anything you're carrying' is printed, the routine moves onto process B and the screen is cleared with the next keypress. And now onto process B.

* 0 ISAT A 254 PLACE A 255 MINUS 71 1

Again there's one such sequence for each individual object! Which takes any items in the carried location and puts them in the players current location.

DROP 0 AUTOD MINUS 71 1 DONE

WEAR ALL 0 ISNOTAT P 254 ISNOTAT Q 254 ISNOTAT R 254 MESSAGE H NEWTEXT DONE

Just like the GET ALL 0 action above, this WEAR ALL 0 routine checks to see whether any wearable items are being carried, if not then message 'H' = 'Sorry, but you don't possess anything that's wearable!'.

WEAR ALL 1 NOTZERO 71 MESSAGE J PROCESS C ANYKEY DESC

That last one only works if the player is NOT carrying any wearable items at all (ie, it only comes to this MEAR ALL lastion, if it bypasses MEAR ALL 0, and the player is carrying at least 1 object, and a wearable item is NOT not-carried, and is therefore as location 254, being carried (logical isn't it? And don't you dare say "No!", Chris!), with message "J' = 'You put on any wearable objects you're carrying!', (EH? -Chris)

WEAR ALL 2 ZERO 71 MESSAGE H NEWTEXT DONE

WEAR ALL 2 only works if the player isn't carrying anything at all, with message H being just the same as for WEAR ALL 0, and now for process C..

. * _ 0 ISAT P 254 PLACE P 253 MINUS 71 1 PLUS 11 1

So if the player has a wearable object that's being carried, its position is changed to the object-worn location (room 25), a value of 1 is deducted from the flag holding the amount of items being carried, and added to the amount of objects being worn flag!

WEAR _ 0 AUTOW MINUS 71 1 PLUS 11 1 DONE

And for a REMOVE ? of the same nature..

REMOVE ALL 0 NOTZERO 11 MESSAGE K PROCESS D ANYKEY DESC

Is the player wearing at least ι object (ie, flag ll is notzeroed? If so, then message 'K' = 'You take off any items being worn!' is printed, and the sequence then moves onto process D

REMOVE ALL 1 ZERO 11 MESSAGE L NEWTEXT DONE

With message 'L' = 'But you're not wearing anything to be able to take off!', and now for process D..

* 0 ISAT P 253 PLACE P 254 MINUS 11 1 PLUS 71 1

The last of these get, drop, wear, etc, routines is..

REMOVE 0 AUTOR MINUS 11 PLUS 71 1 DONE

And for an all purpose 'put object into/remove it from a container' action of the same type, I've used these next few routines to allow a 'wicker basket' to be able to hold upto 7 items and no more (just to make it look a bit more realistic), so if we use flag 15 as the amount of objects being held inside the basket, and object 3 as the basket itself, we can have.

FILL BASKET PRESENT 3 LET 33 L LET 34 M LET 44 N

I've used verb L as the number of the verb PUT, M as the first noun number of the word ALL, and N as the number of the second noun BASKET, which then allows us to have.

PUT ALL 0 NOUN2 BASKET PRESENT 3 NOTZERO 71 LET 51 3 MESSAGE O PROCESS E ANYKEY DESC

And so, if the basket is in the same location as the player, and he/she is holding at least 1 object, then message '0' * 'You put anything you are carrying into the _1', with flag 51 converting the number of the object given, into the text description of said item, and using that instead of any underlines in text!

PUT ALL 1 NOUN2 BASKET PRESENT 3 NOTZERO 71 GT 15 7 LET 51 3 MESSAGE P

With message 'P' * 'Sorry, but the _ is far too full to be able to hold anything else!', and for process E...

* 0 ISAT P 254 LT 15 8 PLACE P 3 MINUS 71 1 PLUS 15 1

So for process E, is any object being carried, and is the amount of objects inside the basket less than maximum, ie, less than 82 If so, location of object number 'P' is changed to be that of 'inside the basket', and the relevant flags are altered!

PUT $_$ 0 NOUN2 BASKET PRESENT 3 LT 15 8 WHATO LT 51 A EQ 54 254 AUTOP 3 MINUS 71 1 PLUS 15 1 DONE

Likewise for PUT O above, if the object mentioned (using WHATO LT 51 A) is less than a number after that of the last real objects number, and is therefore a 'real' object in the game, the relevant objects location is changed to the inside of the container-object, but only if the amount of items inside the container is less than the maximum amount specified (ie, less than 8), and the flags are changed.

PUT _ 1 NOUN2 BASKET PRESENT 3 GT 15 7 MESSAGE P NEWTEXT DONE

This one above, just like PUT ALL 1, checks to see whether the maximum amount of objects is being held within the basket, and if so, prints message P (see PUT ALL 1 for message P), and now, how about this for allowing the player to remove all of the objects held in the basket, in

EMPTY BASKET PRESENT 3 LET 33 O LET 34 M LET 44 N

Here I've used value O as the number of the verb REMOVE, see FILL BASKET for the values of M and N, which thus gives us.

REMOVE ALL 0 NOUN2 BASKET PRESENT 3 NOTZERO 15 LET 51 3 MESSAGE Q

If flag 15 is notzero, then there is at least 1 object held inside the basket, if so, then message Q' = 'You remove any objects from inside the 1', and so onto process F.

REMOVE ALL 1 NOUN2 BASKET PRESENT 3 ZERO 15 LET 51 3 MESSAGE R NEWTEXT DONE

If flag 15 is zero, then there are no objects at all within the basket, so message 'R' = 'But there's nothing in the _ for you to remove!', and the following for process F.

* 0 ISAT P 3 PLACE P 254 PLUS 71 1 MINUS 15 1

Is object P at location 3, and thus 'inside the basket'? If so, then it's placed in the player's 'carried' location, the amount of things carried is added to, and the amount inside the basket reduced by 1.

REMOVE _ 0 NOUN2 BASKET PRESENT 3 NOTZERO 15 WHATO LT 51 A EQ 54 3 AUTOT 3 MINUS 15 1 PLUS 71 1 DONE

REMOVE _ 1 NOUN2 BASKET PRESENT 3 ZERO 15 LET 51 3 MESSAGE X NEWTEXT DONE

Message 'X' * "But there's nothing inside the _ for you to remove!' Those last two routines don't really need any explantion! think, other than to repeat that flag 15 is the amount of objects inside the basket, and I should also point out that (like the example for object P) I such a because the second of the player to lift in any case, such as a wadrobe for instance, need not be included in this conveyable whathor process, or in the cases of processes C and D, each wearable/removable object in a game! Also, if the player starts the gase off by wearing, or carrying anything, apart from obviously median to the like any such objects in ment one, in process!...

. * ZERO 31 LET 71 2 LET 11 1

So, for the above, if this is the player's first keypress (ZERO 31), and he/she is carrying 2 objects and wearing a third, then make the 'carried' flag equal to 1, or if there are 2 items held in the basket at the start of the game, then the * * action above might also include..

* * ZERO 31 LET 15 2

And now onto Larry Morsfield's slightly changed 'inventory' commands, for which we'll need to re-write a few of the system messages already held in PAW, so for response, let's change the I _routine already there into..

I 0 NOTZERO 71 NOTZERO 11 SYSMESS 11 SYSMESS 9 LISTAT 254 SYSMESS 47

SYSMESS 10 LISTAT 253 SYSMESS 51 DONE

I above only works if the player is both carrying, AND wearing at least 1 object, if so, then the new sysmessage '11' "You're', sysmess '9' = 'carrying' (don't forget the spaces!), sys '47' = ' and ', and sysmess '10' = 'wearing', with locations 254 and 23 holding the objects being carried and worn respectively, with sys' 51 being a full stop with a newline after it.

I 1 ZERO 11 NOTZERO 71 SYSMESS 11 SYSMESS 9 LISTAT 254 SYSMESS 51

The only difference for I = 1 is if the player is holding something, but wearing nothing!

I $_{\mbox{\scriptsize 2}}$ ZERO 71 NOTZERO 11 SYSMESS 11 SYSMESS 10 LISTAT 253 SYSMESS 51 $_{\mbox{\scriptsize DONE}}$

So that I=1 and 2 only bother to list any objects that ARE being worm, or carried, and will not bother to say something such as 'You're wearing nothing', or 'You're carrying nothing'; for example. But what if the player isn't carrying, or wearing anything at all? (Goner-Ed)

I 3 ZERO 71 ZERO 11 MESSAGE S NEWTEXT DONE

The message 'S' = 'Sorry, but you don't have anything in your possession at all!'

Well, that's it for another month, ta-ta for now, and as usual for any help you want and/or help you can give to your fellow adventu-writers, please contact me here via the 'Coder', along with any other comments, or my address is.. 93 ROBERTS STREET, NEWCASTLE UPON TYNE, NEIS 6BE

PAW MARKS

George March answers your PAW problems — this month. how to prevent objects being dropped in a maze.

My god! I've actually had a lovely letter off someone wanting some help - I must be doing something right? At last..

So to begin with, my many thanks go out to Miss Alison York, of somewhete in Bradford (you didn't say where though, Alison?) for my first, and only so far, letter to 'Print's, and at least I think you're a Miss, as you didn't say that either (pity!), you could be a Mrs, or a Ms even if you're the liberated type.

I was delighted to read's friendly. interesting (though sadly a bit short!) letter, the message on the back of your envelope was particularly heartwarming, Alison, !'ll treasure it, my very first letter! It was also very helpful that you detailed which type of machine you were using imemory wise!, as I may have given you some routines too large for a P.A.W database, which was nearly full already (it's alright for those littless with lots of memory to waste!), so as I don't know how much of a minimum, obay. Alison? I folded on with, I'm going to keep it down to

It's also a great pity you couldn't have been a bit more specific about what you wanted, but here goes..

So, if you only wanted your non-drop routines to work in specific rooms, and to work normally in others, you could try...

DROP 0 WHATO LT 34 255 EO 54 254 ATLT 12 MESSAGE A NEWTEXT DONE

Now these routines must come at the very beginning of any DROP _routines you may already have in response, and the rest is easy enough, as the NHATO gives the number of the object mentioned, and if it's a real object (ie, flag 34 is less than 25) and is being carried (is in room 254, and you're also in a room with a number less than, for example, 17, message A is printed and newtexted, which could always work sure any room that you DO want your DROP _ to work normally in, have a room number greater than 11, it being 1 less than that used by the ATLT ?

DROP 0 WHATO LT 34 255 EQ 54 254 MESSAGE B NEWTEXT DONE

Which just gives a 'But you'll have to use the somehow, you can't just put it down!' type of message, so that the player would have to find a use for whatever object it was, to use it up, before they could pick up anything else, but it's a horrible trick to play I must admit! So once you've got that you don't need the normal.

DROP _ AUTOD DONE

Action anymore. Or ..

DROP _ 0 WHATO LT 34 255 EQ 54 254 CHANCE 50 MESSAGE A NEWTEXT DONE

To give the player the disability of only being able to drop whatever they want SOME of the time, and there's always...

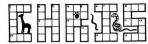
DROP 0 WHATO LT 34 255 EQ 54 254 ATLT 12 PUTO A MESSAGE C DONE

Which could give you a routine something like that used in 'Very Big Cawe Adventure', so that another character could come along, steal anything that's dropped, using PUTO A to place anything dropped into room A, the 'other characters inventory!

I don't know if any of the above are any good to you, but you didn't really tell me what you wanted off me, you did mention your map, but I didn't know if you wanted any hints with it? But if you ever have any tell the property of the pro

So there you go! A whole column just for you, well worth a 20p stamp (yes, it's gone up again!) to get your name in print, just like my on≥, my only reader so far. Miss Allson York!





"CHRIS" (30/12/86) by Chris Hester. All the across words are animals.

ACROSS

- 1) Rod Hull's famous bird (3) 4) Apimal used for bacon (3)
- 6) Minter? (3) 8) Sly creature (3)
- 9) Farmyard egglayer (3) 10) Sturdy plough-puller (2)
- 11) Carrier of the plague (3) 14) Canine (3)
- 15) Kind of antelope (3) 16) Feline (3)

DOWN

- 1) Worse for wear, a bit 14-across ----? (5) 2) ---- and pains (5)
- 3) Mens' toilets (5)
- 4) Inquire adventurously? (5) 5) Ancient Chinese game (2) 7) Strange (5)
- 8) Animal coat (3) 12) Add up (3) 13) I (2)

Solution to last month's crossword:-

N	0	Т	1	C	E	D		н		S
								E		
C	U	L	P	R	1	T		R		A
Н		L		T		S	L	Ė	E	P
A	S	T	R	A	L				N	
								E		
C	0	L	0	N	1	S	E		A	
E		E		S		S	T	Α	G	E
	W		S		R	E	S	T	E	D
D	I	٧	1	D	E	S		0	D	E

I THE ADS

SUM N

FOR SALE

INTERFACE to connect your Citizen 120D printer to a Commodore 64. Half-price at only £25! Call Chris (0274) 582716 - evenings only.

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TRANSPORT IN ADVENTURES



by Shaun Allaton

PART II: TAXI!



In my last section I showed how to implement care into your PAMed adventure. Besically this section is the same but with a few minor changes and additions. Of course, on this occasion, you don't actually some character interaction as well. Also, to make things more realistic, I've made this version so that the player has to pay for the ride too-care, If he/she doesn't then they get a Disk eye and

Flags

- 60 The location of the cab 61 - Amount of money the player is carrying
- 52 Cab fare

Objects

0 - some money

Messages

- 01 A cab pulls up beside me.
- 02 I was inside a cab, so couldn't call another one.
- 03 One was already here.
- 04 I couldn't call one from here.
- 05 I was already in the cab.
- 06 A cab wasn't here.
- 07 The cabbie wasn't happy with you trying to get away without paying
- so sends you to that place in the sky. 08 Climb out of what?
- 09 Climb into what?
- 10 The cabbie wasn't here.
- 11 "That's ' 12 " pronounced the cabbie as we reached our destination.
- 13 "We're already here guv."
- 14 "Sorry mate. I don't know where that is!"
- 15 I didn't have any money. 16 The cabbie wasn't here.
- 17 You owe him nothing, nothing at all!
- 18 The money amounted to 19 A cab stands before me.

Process Table O/Responce Table

HAIL CAB NOTSAME 38 60 ATGT 0 ATLT 3 MESSAGE 1 COFYFF 38 60

This first command checke that a) the cab is not already in the same location and l) that the player can call a cab from where he/she is standing i.e they are in location 1 or 2. Then FAW tells the player that a cab pulls up and then the location of the player (flag 3B) is possed so that the location of the cab iflag 60 is the same

HAIL CAB AT 3 MESSAGE 2 DONE

Tells the player they can't call a taxi if already inside one.

HAIL CAB SAME 38 60 MESSAGE 3 DONE

Basically the same as above but checks to see if the cab is standing next to the player i.e ready for the player to climb into.

HAIL CAB ATGT 3 MESSAGE 4

DONE

DESC

DONE

In this demo, if the player is in a location with a higher value than 3 then they cannot call the cab, and are told so.

CLIMB CAB PREP IN NOTAT 3 SAME 38 60 GOTO 3

First PAW checks that as well as CLIMB CAB. IN has also been typed in. then PAW checks if the player is in the same location as the cab (SAME 200), if so, then the player is moved to location 3 (inside the

CLIMB CAB PREP IN AT 3 MESSAGE 5

This tells the player that he/she is already inside the cab.

CLIMB CAB PREP IN MESSAGE 6 DONE

This tells the player that a cab isn't around.

CLIMB OUT AT 3 ZERO 62

COPYFF 60 38

First PAW checks that the player is inside the cab and that the player doesn't owe any money to the cabbie then it copies the cab's outside location (flag 60) to that of the player (flag 38) and describes the new location.

CLIMB OUT AT 3 NOTZERO 62 PAUSE 100 MESSAGE 7 PAUSE 100 END

Death routine.

CLIMB OUT NOTAT 3 MESSAGE 8

DONE

If the player isn't inside the cab then PAW asks the player: "Climb out of what?"

CLIMB _ PREP IN MESSAGE 9

MESSAGE 9 DONE

If the player just types CLIMB IN then PAW asks: "Climb into what?"

PAY CABBI AT 3 NOTZ

NOTZERO 62 CARRIED 0 SUB 62 61 CLEAR 62 OK

First off ${}^\circ AW$ checks that some money is being carried (object 0)—then subtracts the amount of the fare from the amount of the money which the player is carrying and then clears the amount of fare due to 0.

PAY CABBI

AT 3 NOTZERO 62 NOTCARR 0 MESSAGE 15 DONE

The player is told that they possess no money.

PAY CABBI AT 3

ZERO 62 MESSAGE 17 DONE

This tells the player that no fare is due.

PAY CABBI NOTAT 3

MESSAGE 16 DONE

Tells the player that the cabbie isn't around.

COUNT MONEY MES 18 PRINT 61 DONE

Informs the player how much dosh is being carried.

SAY CABBI AT 3

PROCESS 3

If the player is inside the cab then PAW goes to Process Table 3 to check for speech to the cabbie.

SAY CABBI MESSAGE 10

Tells the player that the cabbie isn't around.

Process Table 1

AT 0 SET 61 GOTO 1 DESC

If the player has just started a new game (is at location 0) then set the amount of money being carried to 255 and remember when entering the money in as an object to set it so that it is carried at the start of the game.

> SAME 38 60 MESSAGE 19

If the cab is beside the player then he/she is told so at the end of the location description.

Process Table 3

PARSE

Gets the speech that the player wishes to give to the cabbie.

• OFFIC NOTEQ 60 2 LET 60 2 PLUS 62 3 MES 11 PRINT 62 MES 12 DONE

Something I forgot to mention at the start was that the two locations the player can visit are his/her home (location 1) and the office (location 2). This routine first checks that the player isn't aiready at the office and then driver to the office and tells the player the amount owed and adds it to flam 62.

OFFIC MESSAGE 13 DONE

Tells the player that they are already at the destination.

HOME NOTEQ 60 1 LET 60 1 PLUS 62 3 MES 11 PRINT 62 MES 12 DONE

HOME MESSAGE 13 DONE

The above two commands work in the same way as the previous two.

And believe it or not that's it. Ouite a long routine but it's effective and I've found it works well.

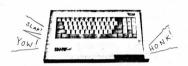
Next time I'll be looking at how to implement Trains into your FAWes

Last but not least I'm looking for adventure games to publish -

games and like BR. how to make them run late!!

(hopefully starting in the early part of next year). At the moment I'm only looking for onem written on the Spectrum and Maniga but, with a bit of luck will be able to expand this to include the CBM 64 and ST as well. If you're interested then drop me a line at the address below and I'll send you full details. It's also the same address if you need any help using PAM.

SHAUN ALLATON, c/o PSYCHO HIPPY SOFTWARE, 61 GOLDCREST ROAD, IPSWICH, SUFFOLK, IP2 OSF.



QUOTES OF THE MONTH

"The drive mechanism is encapsulated in plastic, and can be slipped in and whipped out as many times as you like. (Honk!)... The graphics on the form of the same of the same

"The last program on the disk of games was called THE QUEST and I duly loaded this up. plugged in the joystick and waited for the action testrt... I had never seen or even heard of an adventure game before so my conclusion was that the game had crashed." - Mandy Rodrigues on her very first text adventure.

"If someone from (Adventure) Probe can't help you, then the adventure hasn't been written yet!" - Mike Gerrard reviewing Probe.

"People have been declaring the death of the adventure market for years... the 16-bit machines sell more games."*- Level 9 out of their tree.





- 1) "I Want Your Fax" George Michael
- 2) "Tippex Machine" James Brown
 3) "Temporary Secretary" Paul McCartney *
- "Temporary Secretary" Paul McCartney *
 "Lady Typewriter" Dire Straits
- 5) "The In-Tray" Bryan Ferry" 6) "File Under Forget" - Karel Fialka *
- 7) "In The Airconditioning Tonight" Phil Collins
- 8) "Telephone Line" ELO *
 9) "Fax Of Love" Climie Fisher
- 9) "Fax Of Love" Climie Fisher 10) "Celebrate The Wordprocessor" - Womack & Womack
 - * real song titles



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** A FANTASY GRAPHICAL ADVENTURE GAME FOR SPECTRUMS **

Many years have now passed since your valiant father Traon, battled heroically to save his master's life. For his bravery he was awarded a precious jewel, which money alone just coulon't

However, many years have also passed since your father was brutally attacked and fatally wounded by the evil Black Priest of Zaobab. The result of this attack was the theft of the priceless jewel...

Now, after the death of the evil one you, Traon's only son, have decided to attempt to journey forth to Zaobab and recover the jewel, thus avenging the evil one.

However the quest will not be a simple one as en-route you are sure to meet with many of the Priest's evil accomplices.

CAN YOU TAKE ON THIS ROLE AND BECOME VICTORIOUS IN THE BATTLE TO RECOVER THE RUNESTONE OF ZADBAB?

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...........

This game feature	25 :					
A combat routine	spells	and	magic.	many	devious	problems
illustrated locat	tions, adv	ranced	parser	+ MUCH,	MUCH mo	re.

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USEFUL PAW ROUTINES

by Darren Rose

AUTOMATIC EXIT PRINTING

To print all available exits as part of the location description:-

Process 1

- _ * MES 100
- S COPYFF 38 100 LET 33 2 MOVE 100 ADD 100 101 NOTZERO 100 MES 101
- E COPYFF 38 100 LET 33 3 MOVE 100 ADD 100 101 NOTZERO 100 MES 102
- W COPYFF 38 100 LET 33 4 MOVE 100 ADD 100 101 NOTZERO 100 MES 103
- N COPYFF 38 100 LET 33 5 MOVE 100 ADD 100 101
 NOTZERO 100 MES 104
- U COPYFF 38 100 LET 33 11 MOVE 100 ADD 100 101
- _ D COPYFF 38 100 LET 33 10 MOVE 100 ADD 100 101

Messages

- 100 Visible exits -
- 101 S 102 E
- 103 W 104 N
- 105 U

SWEAR PROTECTION

A very useful feature in an adventure is swear protection, this routine ends the game when a swear word is entered.

Vocabulary

Put all the swear words you can think of in here as Noun 150.

Response Table

* (swear word) BEEP 10 10 MESSAGE 50 ANYKEY END Message 50 = "Don't swear, just for that you can start again."

AGAIN

This is another useful routine, used in all professional adventures. Verb 56 - AGAIN

Response Table

AGAIN * CLEAR 240 EQ 33 56 COPYFF 233 33 COPYFF 234 34 COPYFF 243 43 COPYFF 244 44 COPYFF 245 45 SET 240

* COPYFF 33 233 COPYFF 34 234 COPYFF 43 243
COPYFF 44 244 COPYFF 45 245

_ MOVE 38 DESC

_ LT 33 14 SYSMESS 7 DONE

OOPS!

Another useful command is COPS so if you make a mistake the game will go back a command when you type it.

O EQ 33 29 RAMLOAD 255 DESC

* * 1 RAMSAVE

CLOCKS

This is a very useful feature for a real-time clock running in memory.

Flags used

150 minutes

151 hours 152 days

Process 2

PLUS 150 1 EQ 150 60 CLEAR 150 PLUS 151 1
 EQ 151 24 CLEAR 151 PLUS 152 1 EQ 152 7 CLEAR 152

Process 6

_ COPYFF 151 153 GT 153 11 MINUS 153 12

PRINT 153 MES 2 PRINT 150 GT 151 11 MESSAGE 3

MESSIGE 4

Response Table

LOOK CLOCK MES 1 PROCESS 6 DONE

Messages

The time is

3 PM

3 PM 4 AM

Using this feature I have written routines for shops which open and close, and also for buses and trains that orrive and leave at certain times. At the moment I am writing a routine for characters who arrive and leave and do certain things at specific times.





There's prizes galore to be won in this, our first competition!!! Here's the prizes you can win...

TOP PRIZE: £50 worth of software for your computer !!!

SUB-PRIZES (in no order)...

 six months' overseas subscription to "ADVENTURE CODER!", delivered airmail to your door! Worth £13.50!

 copies of "MAGNETIC MOON" or "STARSHIP QUEST" - the fabulous games from Fantasy & Science Fiction Adventures! For Spectrum only.

3) copies of other adventure programs yet to be revealed! (Hopefully for C64, Spectrum and Amstrad CPC!)

4) a year's UK subscription to "ADVENTURE CODER"! Worth £12!

5) C64 disks - adventures and otherwise! Games galore!

There will probably be many other prizes to be won with the prizes above, you 'll have to win to find out what! And how, you beg, how do you win?' Well, first off, note that obviously some of the prizes above are worth more than others, so there'il be an overall prize winner, who get he manzing £50 worth of whatever software they want. Here'd like the winners who can choose which of the other prizes they'd like.

To win, all you have to do is this! Write me a list of all the words you can make out of the title "ADVENTURE CODER", using only the letters in the title, but in any order you like. For instance, you might come up with "venture" or "code". That is all there is to it! Now study the rules below and get winning.

RULES

 You must send me your list, plus a COUNT of the total number of words you've come up with.

Words using letters not in the title "ADVENTURE CODER" will be dismissed.

 The words must be between one letter and fourteen letters long, with no spaces.

4) The closing date is the end of DECEMBER 1989. The results will be made known in the January issue, and the prizes sent off after December. (The Top Prize winner must notify me what software they want before I can send it to them.)

5) Don't forget to tell me which computer you use, and what format! E.g. Commodore 64 with disk-drive.

6) Anyone is allowed to enter except me!

7) Finally, please state which of the sub-prizes you'd LIKE to win. If your last of words is longer than someone sless who wants the same prize, then you'll get it instead of them. The competition is cot the largest total number of words you can make from "ADVENTIME CODER"

ADVENTURE COLUMNS REVIEW

An adventure column is the sign of a great magazine. Shame on all magazines that don't have one! Often the adventure columnist magazines that don't have one! Often the adventure columnist writes his or her regular spot in a mag rapidly becomes a well-known name, a figure to trust for the latest news and the lastest reviewer. Name me an arcade reviewer - shucks, there's too many to name. Now name me an adventure columnist - that's right, I read their columnist - that's right. I read their columnist of the state of the st

Balrog

Bairog recently replaced The Pilgrim in AMSTRAD ACTION. Judging by his first column, which sports news on Level 9 and a game review. Bairog's alright:

OVERALL: 7/10

Brillig

ATARI ST USER readers have Brillig for their adventure columnist. In a way he typifies most of the pseudonymous type of writer - you don't know who they are, so unless a strong character shows through, they might as well all be the same person writing for different magazines: (And probably are!) Personally I prefer someone a bit more down to earth.

OVERALL: 7/10

Derek Brewster

Derek used to write a regular monthly column in CRASH magazine for several years, I found his column one of the very best, always starting with an excellent piece of comment on the industry. He was starting with the excellent piece of comment on the industry. He was even wrote the odd adventure himself, such as "Kentilla". Where is he now you ask? Sadly he departed from CRASH and the last I saw of him was matting up the budget label Zeppeinin Games who have yet to release

OVERALL: (THEN): 9/10 (NOW): 0/10

Tony Bridge

Tony has written in Popular Computing Weskly (FCW) for about as long as there have been adventured. He's also contributed to the demised Micro Adventurer magazine. His "Adventure Bridge" column is one of the most respected columns. Often dealing with home-grown adventures and magazines. Although he only has a single page, that columnists. Mowever, in recent years, he's failed to appear some weeks, and since the recent redesign of FCW I'm not sure if he still writes there or not! He did leave a while back, but was hatily reinstated due to much public pressure. Although he doesn't give he writes is well worth reading.

OVERALL: 9/10

Keith Campbell

Good old Keith has been writing for C+VG ever since it started over 5 years ago! He now also writes for COMMODORE USER and both columns are worth reading, if a little sparse. Somehow they seem to end up identical each month - the same artwork, the same page of readers helps, and a definite bias towards anything remotely Infocom. This is a shame as often excellent homegrown stuff gets an automatically low mark, just because all Infocom games are always marked at However, Keith does review well, and unlike the pseudonym type of columnist, lets himself show through in his reviews, especially when answering readers' questions. Some of his readers are nearly as famous as he is - like the Farringdon Fiend for example. I read his column in C+VG long before playing my first adventure, yet it has to be said that he used to have a lot more space in C+VG, often getting a massive Adventure Special in the mag, packed with enough to really get you into the idea that adventures were somehow more than you might think from other magazines. He even used to be helped out by other writers for a massive "all-release" reviewing marathon some months. So long as you haven't played Keith's appalling "Pen & The Dark" adventure. you're safe with him.

OVERALL: 8/10 (used to be 9/10)

Steve Cooke

Or the "White Wisznd" if you prefer. Under that name, he used to write in Personal Computer Games, then IZAP! magazine for Cosmodore 64 users but now Steve writes for ACE. Frankly, he was best as Whitey, with a brilliant column in the much-miszned PCC. In IZAP! he seemed to write as little as possible some months, though the reviews were fun tread as here was a pseudomymous reviewer that really stood out -you could just imagine him in his cave, playing away and being fed by his pet mostrer slaves. Oliver Frey heightened his Character with some busy that the pet work of the pet work o

OVERALL (as Whitey): 8/10 (as himself): 6/10

Mike Gerrard

Mike now writes for YOUR SINCLAIR and ZERO. Both columns are superb, with the quality that used to mark Keith Campbell's old pages in C+VG. The writing is humourous but never silly (unlike the rest of 231) and he seems to be ontop of all that's happening in the adventure 1321 and he seems to be ontop of all that's happening in the adventure last column in YS every to say, a keen eye for home-grown games. His last column in YS every to say, a keen eye for home-grown games. His last column in YS every to say, a keen eye for home-grown and confidential (part of Official Secrets). You need only to read his reviews of these see he knows what he is writing about, detailing the exact history of each magazine! I cannot praise his columns highly enough, they will done Kigheb atmosphere black-and-white illustrations each month.

OVERALL: 10/10

The Grue

Let's get this straight: this is not THE Grue of Adventure Probe fame, but a cruel impersonation by Andy Mitchell in AMIGA ACTION.

OVERALL: 7/10

The Mad Hatter

Readers of THE MICRO USER can sample the words of The Mad Hatter, who must have been writing there for quite a while now. Similar to Pendragon's column, the Hatter's is simple, effective and probably the only place to read about BBC adventures these days.

OVERALL: 7/10

Andy Moss

Columnist for COMMODORE COMPUTING INTERNATIONAL, Andy writes an interesting column, not that lively, but certainly not dull, though I dislike the presentation. Recommended.

OVERALL: 8/10

Professor Norman Nutz

Oh dear vet another stupid pseudonym. Norman writes for ZZAP! and like the White Wizard, seem to write as little as possible, with the bearest of intros and predictable reviews. The best thing about his column is perhaps the photographic backgrounds as if each page is on a clipboard, though the coffee-stains sometimes make the text hard to contain the contains the contains a over-the-top as his predecessor. Chuck Vemit X. least he's not as over-the-top as his predecessor. Chuck

OVERALL: 6/10

Pendragon

Pendragon writes for ELECTRON USER, or LECCY USER as it's known in Liverpool. Although the column is often fairly small. Pendragon writes it well with comments. help and colourful maps to interest the reader.

OVERALL: 7/10

Paul Rigby

Paul writes in The Games Machine, having taken over from Rob Steel recently. There, he gets probably the best presentation of all the columnists, with a lovely column of shining pink marble at the start of Roll-Playing Games and 5 for Stierdey Games. This means that there are several games reviewed each month, guaranteeing a larger than usual section in the magazine, complete with colour screenshots of most games. Best of all, he's just reviewed Tom Frost s' The Gordello Rolls of the start of t

OVERALL: 9/10

The Sorceress

This person should really be called the Sorcerer as they're male: Sinit, we don't want to give your brother's game away, do we Mile'l The Sorceress writes for SINCLAIR USER, complete with sexist illustrations. Generally a good column, that I can't find much at fault with but please come out from behind that pseudonym!!

OVERALL: 9/10

EXTRA LETTER!

Y O U R S I N C L A I R

ADVENTURE HELPLINE

14 RATHBONE PLACE LONDON WIF IDE

6 October 1989

Dear Chris

I just wented to say a guick 'thanks' for continuing to send me copies of Adventure Code mappine - or if it's Mangh that's responsible, pass the thanks on. Either way, you're the one to be congratulated for reviving the type of magazine that was much needed, and with the help of people like Matthey Conway, Paul Brunyee, George March, Gerald Kellett and others, you're turning out a magazine that i know is of a lot of use to a lot of people.

Watch out for a plug in the next (I hope) issue of Your Sincisir -- thigh bear in mind that was written when you'd only just started <math>- and tell anyone who might be thinking about buying PAWS to be sure to buy the Christmas (January) issue of YS.

All the best.

Mile

Mike Gerrard

APOLOGY

Unfortunately part of Paul Brunyee's article last issue was missing the two markers to sections within the code that should have been marked "A" and "B". I apologise to Paul and other readers who may have been confused over this matter.

. The "A" marker was intended to appear on page 27 (see last issue) pointing to the line reproduced below. (12 lines down the page.)

CKNOUN LD DE.NOUN address of noun number

If you like, you could write an "A" pointing to this line on the page. As for the second marker "B", this was meant to appear on the same page. 22 lines down, alongside the line as shown below.

JR NZ.CKVERB yes, loop back because HL already bumped along.

The two markers therefore isolate the CKNOUN area. Once again, apologies to Faul Brunyee and anyone else who might have wondered where the markers "A" and "B" were.

TIME AFTER TIME

by Christopher Hester

Professor Daniel Zweistein awoke with a flash.

"Of course!" he said, "That's it! Of course!" He leapt out of bed and slid a pair of glasses over his face. The clock read five minutes to eight - plenty of time to test the solution that had come to him so leading clearly as he had woken. Months of hard work had made him a leading clearly as he had woken. Months of hard work had made him a leading completing an invention that would win him the Nobel Prize ten times over. But for the last month, the invention had consistently failed work. The theories were sound, the practice was perfected, but the work. The theories were sound, the practice was perfected, but the work. He knew it would win the work in the work of the knew it would work. He knew it would be the work of the knew it would be the work of the knew it would be and yet it was a solution that had eluded him for so long.

Zweistein erribbled down the solution hurriedly onto a few scraps of paper. Then threw on some clothes, and threw down some breakfast. He left his house and welked across to the street to the campus laboratory. Once inside. there lay the invention. In the light of the solution, it was a hopelessly constructed machine. Nearly every part was in the wrong place. He madly refitted the parts until the machine stood together neater and more compact than before. He d never all the time that ever existed dight matter ason, he would have

Click. The machine came to life, purring blissfully. He smiled. then laughed. It worked! But now for the true test...

The professor entered a small space at the side of the machine where a chair stood waiting. He sat down and peered through his glasses at the range of assembled diels above a row of switches. He flicked over the switches and set a time display to read 7.55.

Zweistein was so confident that his invention would work, that he hadn't thought to test it first with an inanimate object - he'd test it himself! He could wait no longer.

He glanced at his watch, which read 8.55, then touched the final switch of the machine. A sudden fizzle of energy knocked his unconscious, but the machine had passed the test: And Zweistein had travelled back an hour in time!

He awoke with a flash.

"Of course!" he said, "That's it! Of course!" He leapt out of bed and slid a pair of glasses over his face. The clock read five minutes to eight...



USEFUL ADDRESSES

AMI - Amiga ARC - Archimedes EBC - Acorn EBC Micro C64 - Commodore 64/128 ELE - Electron SPE - Spectrum range ST - Atari ST range VAR - various computers

CPC - Amstrad CPC range

OTHER ADVENTURE MAGAZINES

VAR: Claus Nygaard, ADVENTURE POSTEN, Adventure Klubben, Vestergade, 25A, 4930 Maribo, Denmark.

VAR: Mandy Rodrigues, ADVENTURE PROBE, 67 Lloyd Street, Llandudno, Gwynedd, LL30 ZPN.

VAR: INTER-ACTION, (The Harlequin, Rob Steel, Auntie Marg, Nik Wild), The Cottage, Ashford, Carbonell, Ludlow, Shropshire, SY8 4DB.

SPE tape: MAGIC MISSILE, Futuresoft, 75 Ben Rhydding Road, Ilkley, West Yorkshire, 1529 BRN.

VAR: Mike Brailsford, SPELLEREAKER, 19 Napier Place, South Parks, Glenrothes, Fife, KY6 1DX.

ST disk: SYNTAX. 9 Warwick Road. Sidoup. Kent. DA14 6LJ.

VAR: CONFIDENTIAL, free to members of OFFICIAL SECRETS, PO Box 847, Harlow, Essex. CM21 9FM.

ADVENTURE COLUMNISTS

VAR: Steve Cooke, ACE, Priory Court, 30-32 Farringdon Lane, London, EC1 3AU.

AMI: The Grue ("Points Of Grue"), AMIGA ACTION, Latham House, Quarry Lane, Chichester, West Sussex, PO19 2NY.

AMI: Dave Briksson, AMIGA COMPUTING, Database Publications Ltd, Europa House, Adlington Park, Adlington, Macclesfield, SK10 4NP.

CPC: Balrog, AMSTRAD ACTION, Future Publishing Ltd. 4 Queen Street, Bath, BAI 1EJ.

ST: Brillig, ATARI ST USER, Database Publications Ltd. Europa House, Adlington Park. Adlington, Macclesfield, SK10 4NP.

· SPE: The Adventure Column. BASIC, 18 Poplar Close, Biggleswade, Bedfordshire, 9318 OFM.

C64: Andy Moss, COMMODORE COMPUTING INTERNATIONAL, Croftward Ltd. Finsbury Business Centre, 40 Bowling Green Lane, London, BCIR OWE.

C64: Gordon Hamlett, COMMODORE DISK USER, Argus Specialist Publications Ltd. Argus House, Boundary Way, Hemel Hempstead, HF2 7ST.

C64/AMI: Keith Campbell, COMMODORE USER, Priory Court, 30-32 Farringdon Lane.

VAR: Keith Campbell, COMFUTER + VIDBO GAMES, Priory Court. 30-32 Farrington Lane. London, ECl 3AU.

ELE: Pendragon, ELECTRON USER, Database Publications Ltd. Europa House, Adlington Park, Adlington, Macclesfield, Skilo 4NP.

- VAR: Paul Rigby, THE GAMES MACHINE, PO Box 10, Luxlow, Shropehire, SY8 1DB.
- BBC: The Mad Hatter, THE MICRO USER, Database Publications Ltd. Europa House, Adlington Park, Adlington, Macclesfield, SK10 4NP.
- VAR: Tony Bridge (still there????), POPULAR COMPUTING WEEKLY, Greencoat House. Francis Street, London, SWIP 1DG.
- SPE: The Sorceress, SINCLAIR USER, Priory Court, 30-32 Farringdon Lane, London, EC1 TIME
- CPC: John Packham, UNITED AMSTRAD USER GROUP, 60 Hightown Towers, Warburton Road, Southampton, Hants, SO2 6HH.
- SPE: Mike Gerrard, YOUR SINCLAIR, 14 Rathbone Place, London, WIP 1DE.
- VAR: Mike Gerrard, ZERO, 14 Rathbone Place, London, WIP IDE.
- C64/AMI: Professor Norman Nutz, ZZAP!, PO Box 10, Ludlow, Shropshire, SY8 1DB.
- ADVENTURE COMPANIES
- VAR: ALTERNATIVE SOFTWARE LTD. Units 3-6. Bailevoste Industrial Estate. Pontefract. West Yorkshire, WF8 2LN. Telex: 557994 RR DIST G Fax: (0977) 790243 Tel: (0977) 797777
- VAR: Philip Bird, ARCON SOFT, 41 Windsor Walk, South Anston, Sheffield, S31 7EL.
- C64: DIGITAL DYNAMITE, 54 Watermill Road, Fraserburgh, Grampian, Scotland, AB4 SRJ.
 - SPE: William Young, GLOBAL GAMES, 4 Kilmartin Lane, Carluke, Lanarkshire, MLS 5RT.
 - VAR: Mitch Pomfret, M.S.B GAMES, 2 Bude Close, Bramhall, Stockport, Chesire, Sk7 20P. (GAC)
 - VAR: (no utilities!) MASTEXTRONIC, 2-4 Vernon Yard, Portobello Road, London, W11 2DX. SPE/AMI: Shaun Allaton, PSYCHO HIPPY SOFTWARE, 61 Goldcrest Road, Ipswich, Suffolk. IP2 OSF.
 - VAR: Rack-It, HEMSON, 56B Milton Park, Abinodon, Oxon, OX14 4RX, Tel: (0235) 832939 SPE: John Wilson, ZENOBI SOFTWARE, 26 Spotland Tops, Cutgate, Rochdale, Lancashire,
- OL12 7NX. ADVENTURE UTILITIES/ADD-ONS

- SPE: (Genesis) CAMEL MICROS, Wellpark, Willeys Avenue, Exeter, Devon, EX2 8BE.
- CPC: (ADLAN) Roger Bankin, GRADUATE SOFTWARE, 14 Forrester Avenue, Weston on Trent. Derbyshire, DE7 2HX.
- VAR: (GAC/STAC) INCENTIVE SOFTWARE LTD. Zephyr One. Calleva Park. Aldermaston. Berkshire, RG7 4QW. Tel: (07356) 77288 Fax: (07356) 6940
- VAR: (Quill/PAW) GILSOFT INTERNATIONAL LTD, 2 Park Crescent, Barry, South Glamordan. CE6 RHD Te1 - (0446) 732765
- SPE: (add-one) Gerald Kellett, KELSOFT, 28 Queen Street, Stamford, Lincolnetire, PE9 105.

UTILITARIAN

This month's column was to have been on the subject of 'The role of sound in adventure games and the feasibility of sound only games for the blind', but just proving that great minds think alike, what did I find on receiving issue 2 of 'Coder', just after I had written the outline, but that Chris had already covered most aspects, except adventure games. I'll leave his to cover that too.

I would like to make the point at the outset that this is not my personal column, feel free to contribute articles of a technical nature concerning adventure creation.

The subject of this month's article then, instead of my original intention, is 'inside info' on BAC, and to answer a few questions passed onto me by Chris from George March.

First the good news, the structure of the databases of CPC and Section with since there are utilities that can load Sections are almost identical, since there are utilities that can load Sections code files into CPCs, (but strangely, as far as I should be quite feasible to convert one to the other. With only one pointer per data-type requiring modifying to the differences in portion in memory, the only possible fly in the ointeent is that the

Now for the horrors, did you know that, as saved out, a Spectrum GACed adventure contains a copy of the GAC editor, all but some 200 odd bytes that form the menu code, these bytes are copied to the printer buffer, this portion of the editor is then 'zaped' before the adventure is saved out and re-instand afterwards.

This fudicrous situation arises because, firstly fifted adventures are saved-out as one block and the editor is placed between the interpreter and the database, instead of the more logical interpret interpreters, 60°C could them still have saved out as one block without leaving any trace of the editor in the saved adventure. Any hacker could probably neconstitutes a free! fully working copy of 60°C from

The structure and program flow of SAC is virtually incomprehensible, child of holes and redendant code and invalid branching. This only solid on the second of the second

Then there is the unnecessary duplication of code to deal with each of the three word tables. Since the start of the verb table is fixed no pointer is used, if it had then one routine could have dealt with all three. Even without this one routine could have dealt with the surface of the setting the pointer to the correct table instead of three sceparate and identical ones, only differing by one ID instruction!

Outse a large part of GAC (all versions I'm fairly certain). Concerning the execution of the Condition tables, look for all the world like 'tweaked' FORTH. This is the cause of the infamous d'isaprearing brackets' problem. The condition lines as entered are a disaprearing to brackets' problem. The condition lines as entered are a condition of the condition of t

numbers to be acted on are placed first, with all the functions to act on them following, in a sequence that excludes all ambiguity without recourse to brackets, both FORTH and the early Sinclair Scientific Galculator use it). It is the 'not quite' that causes the brackets to be lost when a condition line is converted back into 'GAClish' for

editing.

If true reverse Polish notation had been used all brackets would have been stored in implied form, and while the extra brackets affect the others should have been encoded to explicitly (with an 'op-code' for

parenthesis).

This has an interesting inference, if you can persuade GRC to encode the brackets, not only can you retain their action even after coding, but you can get it to do things its not supposed to, HDM ? By using DNITNOT(1), this encodes the brackets (twice) while retaining the bolean value of any conditions contained within them. If you can invert the logic of the conditions to be placed within, then only one NOT(1) need be used. Mist it also allows you to do is to have sore than one commarison operator in a condition, something which extra

Other 'yuks' are the 'cloped dictionary' problem, which all versions suffer from (can someone tell me if STAC does?), and peculiar to the Spectrum is that 25 extrareous bytes are tacked onto the end of each object descriptor, doesn't sound much, except that if all 256 objects.

are used, 6.25K is wasted !

Aryone who uses "RECLAIMER" will know that even though it works in machine code it takes a noticeable amount of time even when no redundant words are present, and this lengthens as the text and dictionary grow. This delay would adstedly be unaccertable if it occurred at each message or word edit, but that's no reason for not having such a "garbage collection" function that "MICLAIMER" provides



Now to answer George's Questions, as to whether some of the add-ons suggested in the GAC Co-product survey included with issue 1, could be provided for PAM.

There is already a 'cut-t-paste' facility available, at least as far as the Process Tables are concerned, it's called 'FM-PMSIS', one of the user overlays in the PIM paciage. I use working on a word processor overlay which would allow text to treated likewise. But I service he wants to 'cut t paste' any data, it the connection tables. The content of the content of

I might add them to the Utilities overlay, which already has search, and replace functions (ie 'PAH-TEL's LIST, SEARCH & HANI with replace) and overlay manipulation. But don't hold your breath, Gilsoft are not enthusiastic to publish any-more overlays at present).

but with only 5K to play with this was not possible.

It would be fairly easy for objects to be referred to by their adjective and nown as given in the object word table, Willi GM tolemisma all it's test on input, finding a match for a message-entered MSS "message test" would be straight forward, with PMM storing test either as full ascii, or tolens or a mixture of both this world not be so cosy.

I agree, PAW should have had an ellipse drawing command. if GAC which preceded it could have one, Gilsoft should have provided PAW with it.

Finally some additions to my previous article. I meant to mention that the addition of having named game position saves was as a result the addition of having named game position saves was as a result structure of the imperimentation of the 'user transparent storage media handling', since disc systems don't allow unnamed headerless files, so tare users get to name their files too in order that things operate consistently whichever you are using. Reparding 'Bloodstore', I presume that examining objects would work in the logical and stratight-forward the sup-objects in the sup-o



THREE FOR A START

by Gerald T Kellett

Here is a word puzzle, nine words all starting with the same three letters, can you find them from the, fairly, straight forward clues?

1) Adjoining to. 2) Gain goal. 3) Try to.
4) Taking notice of. 5) Aide. 6) Opposites are reputed to.

7)	Diminish.	8)	A war	to	the	bitter	end	15	such.	9)	Apportion	to.
				-					-			

4)	5)	.6)
7)	8)	9)

BACK ISSUES

ISSUE 1 July 1989
GAC review: PAW Prints! Machine Coding your adventures Part 1:
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on Colour, Perspective, Ellipses and Rectangles etc! Fiction - "The
Burning Man":

ISSUE 2 August 1989
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To Gacing! Machine Coding your adventures Part 2! Whatever happened
to... sound-only games! STAC - Special Condition 17 etc! The Adventure
- how to write one: Updated utilities list! Updated useful addresses
list!

ISSUE 3 September 1989
The A-Z of RRG: Transport in adventures - the car: Paw Prints:
Solutions to crosswords from issues 1 and 2! Doors in GAC adventures!
STAC article 2! Controversial holiday chart! Machine Coding your adventures part 3! Investigating PAW! More pages!

UTILITIES AVAILABLE

AMI - Amiga ARC - Archimedes BBC - Acorn BBC Micro C64 - Commodore 64/128 CPC - Amstrad CPC range ELE - Electron SPE - Spectrum range ST - Atari ST range VAR - various computers

W. Mitchell (SPE) Games Computing Feb'85

Melbourne House (AMS) book listing/tape

PROGRAM NAME

COMPANY (COMPUTERS) COMMENT

Public Domain (AMI)

M A Richards (SPE)

Electronic Arts (C64)

Codewriter (C64) USA Ouill

Graduate (CPC)

A&B (BBC)

Incentive (ST)

ADI. ADLAN ADVENTURE BUILDER SYSTEM ADVENTURE CREATOR ADVENTURE CONSTRUCTION SET ADVENTURE KERNEL SYSTEM ADVENTURE WRITER ADVENTURESCAPE ADVSYS MIPS AMIGAVENTURE THE BIRO CHARACTER SETS CHARACTERS DRAGON WRITER DUNGEON BUILDER THE EXPANDER FONT CREATOR THE FIX GAC GAC+ GAC DATABASE PRINTER THE GACPAC GENESIS THE ILLUSTRATOR MEGA MINIFIX PATCH PAW PAW-PHOSTS PAW-TEL

PRESS

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PTM

Public Domain (ST) Alpine Software (BBC MTR ARC) Public Domain (AMI) Ramiam Corporation (many) in-house/to loan Simicro (SPE) GAC Gilsoft (SPE) Quill Cowen (DRG) Dream (C64) Gilsoft (SPE) with PRESS Simicro (SPE) GAC Kelsoft (SPE) Quill Incentive (SPE AMS C64) Incentive (C64) disk-only Big Sky (C64) Essential Myth (SPE) GAC CRL/Camel Micros (SPE) In The Cage! Gilsoft (SPE AMS C64) Quill Gilsoft/Kelsoft (SPE) PAW, part of PTM Kelsoft (SPE) Ouill

Gileoft/Melsoft (SPE) FAW, part of FTM Kelsoft (SPE) Quill Gileoft (SPE) Quill Gileoft/Melsoft (SPE) FAW, part of FTM Gileoft (SPE) Quill Kelsoft (SPE) Quill Gileoft (SPE) GAI Kelsoft Kelsoft (SPE) Listing

Incentive (BBC ELE) GAC without graphics Microdeal (ST AMI)

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